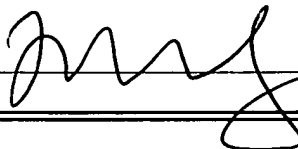


I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Certificate No. EV 336627078 US, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: _____

11/14/03

Signature: _____



(Tamara Alcaraz)

PATENT
Docket No. 492692000102

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Nurith KURN

Serial No.: Not Yet Assigned

Filing Date: Currently Herewith

For: METHODS AND COMPOSITIONS FOR
LINEAR ISOTHERMAL AMPLIFICATION
OF POLYNUCLEOTIDE SEQUENCES
USING A RNA DNA COMPOSITE
PRIMER

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449s. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/990,531, filed November 21, 2001, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

Also pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449 (page 11). Copies of these documents are submitted herewith. The Examiner is requested to make these documents of record as well.

This Information Disclosure Statement is submitted:

- ☒ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- ☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of ___ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of ___ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search

has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the fee transmittal is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorize the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **492692000102**. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: 11/14/03

Respectfully submitted,

By: Cara Coburn
Cara M. Coburn
Registration No.: 46,631

MORRISON &
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Attorneys for Applicant

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/13/2000	60/255,638	Kurn			
	2.	04/15/1986	4,582,788	Erlich			
	3.	07/28/1987	4,683,194	Saiki et al.			
	4.	11/22/1988	4,786,600	Kramer et al.			
	5.	10/24/1989	4,876,187	Duck et al.			
	6.	04/30/1991	5,011,769	Duck et al.			
	7.	07/14/1992	5,130,238	Malek et al.			
	8.	12/08/1992	5,169,766	Schuster et al.			
	9.	02/09/1993	5,185,243	Ullman et al.			
	10.	03/16/1993	5,194,370	Berninger et al.			
	11.	03/21/1995	5,399,491	Kacian et al.			
	12.	06/27/1995	5,427,911	Ruano			
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	14.	08/01/1995	5,437,990	Burg et al.			
	15.	01/02/1996	5,480,784	Kacian et al.			
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	18.	08/13/1996	5,545,522	Van Gelder et al.			
	19.	09/10/1996	5,554,516	Kacian et al.			
	20.	09/10/1996	5,554,517	Davey et al.			
	21.	09/17/1996	5,556,752	Lockhart et al.			
	22.	11/26/1996	5,578,832	Trulson et al.			
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	25.	08/05/1997	5,654,142	Kievits et al.			
	26.	09/09/1997	5,665,545	Malek et al.			

EXAMINER:

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	Mailing Date November 14, 2003	

	27.	09/09/1997	5,665,845	Allman			
	28.	10/21/1997	5,679,512	Laney et al.			
	29.	11/04/1997	5,683,879	Laney et al.			
	30.	01/20/1998	5,710,028	Eyal et al.			
	31.	04/28/1998	5,744,308	Guillou-Bonnici et al.			
	32.	04/28/1998	5,744,312	Mamone et al.			
	33.	06/09/1998	5,763,178	Chirikjian et al.			
	34.	06/16/1998	5,766,849	McDonough et al.			
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	36.	10/20/1998	5,824,518	Kacian et al.			
	37.	12/08/1998	5,846,710	Bajaj			
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	43.	03/30/1999	5,888,819	Goelet et al.			
	44.	10/05/1999	5,962,272	Chenchik et al.			
	45.	12/21/1999	6,004,744	Goelet et al.			
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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
	55.	04/28/1982	EP 0 050 424 A1, B1	Europe				
	56.	08/03/1983	EP 0 084 796 A2, B1	Europe				
	57.	12/17/1986	EP 0 201 184 A2, B1	Europe				
	58.	09/16/1987	EP 0 237 362 A1, B1, B2	Europe				
	59.	03/02/1988	EP 0 258 017 A2, A3, B1	Europe				
	60.	06/14/1989	EP 0 320 308 B1	Europe				
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	64.	01/27/1995	JP 07-023799	Japan				
	65.	04/21/1988	WO 88/02746 A1	WIPO			Abstract	
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	80.	05/18/2000	WO 00/28082 A1	WIPO			Abstract	
	81.	09/28/2000	WO 00/56925 A2	WIPO				
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	Applicant Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

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(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	84.	Ausubel, F.M. et al., Eds. (1995). <u>Current Protocols in Molecular Biology</u> . John Wiley & Sons, Inc. pp. iii-xii (Table of Contents).
	85.	DeRisi et al., (December 1996) "Use of cDNA microarray to analyse gene expression patterns in human cancer" <i>Nature Genetics</i> 14:457-460.
	86.	Flanagan, W. M. et al. (March, 1999). "A Cytosine Analog That Confers Enhanced Potency to Antisense Oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 96(7):3513-3518.
	87.	Freshney, R.I., Ed. (1987). <u>Animal Cell Culture</u> . IRL Press: Oxford, pp. vii-xii (Table of Contents).
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	92.	Guatelli et al. (March 1990). "Isothermal, In Vitro Amplification of Nucleic Acids by a Multienzyme Reaction Modeled After Retroviral Replication," <i>Proc. Natl. Acad. Sci. USA</i> 87:1874-1878.
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	94.	Kwoh et al. (1989). "Transcription-Based Amplification System and Detection of Amplified Human Immunodeficiency Virus Type 1 with a Bead-Based Sandwich Hybridization Format," <i>Proc. Natl. Acad. Sci. USA</i> 86:1173.
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	96.	Lockhart et al., (December 1996) "Expression monitoring by hybridization to high-density oligonucleotide arrays" <i>Nature Biotechnology</i> 14:1675-1680.
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	98.	Patel, R. et al., (April 1996) "Formation of chimeric DNA primer extension products by template switching onto an annealed downstream oligonucleotide" <i>Proc. Nalt. Acad. Sci., USA Chemistry</i> , 93:2969-2974.
	99.	Pease et al., (May 1994) "Light-generated oligonucleotide arrays for rapid DNA sequence analysis" <i>PNAS USA Biochemistry</i> 91:5022-5026

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 492692000102	Application Number Not Yet Assigned
		Applicant <div style="text-align: center;">Nurith KURN</div>	
		Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
		Mailing Date November 14, 2003	
	100.	Mullis et al. (1986). "Specific Enzymatic Amplification of DNA In Vitro: the Polymerase Chain Reaction," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 51:263-273.	
	101.	Mullis, K.B et al., Eds. (1994). <u>PCR: Polymerase Chain Reaction</u> . Birkhäuser: Boston, pp. xv-xvii (Table of Contents).	
	102.	Orita M., et al. (1989). "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> 86(8):2766-2770.	
	103.	Patel et al. (April 1996). "Formation of Chimeric DNA Primer Extension Products by Template Switching Onto an Annealed Downstream Oligonucleotide," <i>Proc. Natl. Acad. Sci. USA</i> 93:2969-2974.	
	104.	Saiki, et al. (1988). "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487.	
	105.	Sambrook, J. et al., Eds. (1989). <u>Molecular Cloning: A Laboratory Manual</u> . 2nd Edition, Cold Spring Harbor Laboratory Press, pp. xi-xxxviii (Table of Contents).	
	106.	Sarkar et al. (1992). "Screening for Mutations by RNA Single-Strand Conformation Polymorphism (rSSCP): Comparison with DNA-SSCP," <i>Nucl. Acids Res.</i> 20(4):871-878.	
	107.	Sasaki, N. et al. (March 1998). "Transcriptional Sequencing: A Method for DNA Sequencing Using RNA Polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 95:3455-3460.	
	108.	Scaringe, S.A. (2000). "Advanced 5'-Silyl-2'-Orthoester Approach to RNA Oligonucleotide Synthesis," <i>Meth. Enzymol.</i> 317:3-18.	
	109.	Schena et al., (October 20, 1995) "Quantitative monitoring of gene expression patterns with a complementary DNA microarray" <i>Science</i> 270:467-470	
	110.	Schena et al., (1996) "Parallel human genome analysis: microarray-based expression monitoring of 1000 genes" <i>Proc. Natl. Acad. Sci. USA Biochemistry</i> 93:10614-10619.	
	111.	Shalon et al., (1996) "A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization" <i>Genome Res.</i> 6:639-645.	
	112.	Suzuki, Y. et al. (1990). "Detection of Ras Gene Mutations in Human Lung Cancers by Single-Strand Conformation Polymorphism Analysis of Polymerase Chain Reaction Products," <i>Oncogene</i> 5(7):1037-1043.	
	113.	Wahlestedt et al. (May 9, 2000). "Potent and Nontoxic Antisense Oligonucleotides Containing Locked Nucleic Acids," <i>Proc. Natl. Acad. Sci. USA</i> 97(10):5633-5638.	
	114.	Walker et al. (January 1992). "Isothermal In Vitro Amplification of DNA by a Restriction Enzyme/DNA Polymerase System," <i>Proc. Natl. Acad. Sci. USA</i> 89:392-396.	
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				Applicant Nurith KURN			
				Filing Date Concurrently Herewith		Group Art Unit Not Yet Assigned	
				Mailing Date November 14, 2003			
U.S. PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	03/29/2001	US 2001/0000077 A1	Engelhardt et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
OTHER DOCUMENTS <i>(including author, title, Date, Pertinent Pages, Etc.)</i>							
Examiner Initials	Ref. No.	Title					
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	Applicant Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 7, 2003	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	08/27/1991	5,043,272	Hartley	435	91	
	2.	09/28/1999	5,958,681	Wetmur et al.	435	6	
	3.	10/12/1999	5,965,409	Pardee and Liang	435	91.2	
	4.	03/29/2001	US 2001/0000077 A1	Engelhardt et al.	435	91.1	
	5.	11/15/2001	US 2001/0041334 A1	Rashtchian and Solus.	435	6	
	6.	5/16/2002	US 2002/0058270 A1	Kurn	435	6	
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	8.		10/100,321	Kurn			3/11/2002

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	6.	05/02/1990	EP 0 365 627 B1	Europe				
	7.	10/31/1990	EP 0 395 398 A2, A3	Europe				
	8.	08/05/1992	EP 0 497 272 A1, B1	Europe				
	9.	08/26/1992	EP 0 500 224 A2, A3	Europe				
	10.	05/26/1993	EP 0 543 612 A2, A3, B1	Europe				
	11.	08/16/1995	EP 0 667 393 A2, A3	Europe				
	12.	02/17/2000	WO 00/08208 A2, A3	WIPO				
	13.	09/08/2000	WO 00/52191 A1	WIPO				
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	15.	09/07/2001	WO 01/64952 A2	WIPO				
	16.	04/11/2002	WO 02/28876 A2, A3	WIPO				

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Examiner Initials	Ref. No.	Title

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	1.	03/13/1990	4,908,385	Bar-Tana et al.			
	2.	04/25/1995	5,409,818	Davey et al.			
	3.	12/31/1996	5,589,339	Hampson et al.			
	4.	08/26/1997	5,660,988	Duck et al.			
	5.	02/10/1998	5,716,785	Van Gelder et al.			
	6.	03/24/1998	5,731,146	Duck et al.			
	7.	12/29/1998	5,854,033	Lizardi			
	8.	10/05/1999	5,962,271	Chenchik et al.			
	9.	07/18/2000	6,090,591	Burg et al.			
	10.	10/17/2000	6,132,997	Shannon			
	11.	11/07/2000	6,143,495	Lizardi et al.			
	12.	09/18/2001	6,291,170	Van Gelder et al.			
	13.	03/19/2002	6,358,712	Jarrell et al.			

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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	14.	11/18/1998	EP 0 878 553	Europe			
	15.	01/12/2000	EP 0 971 039	Europe			
	16.	07/13/2000	WO 00/40715	WIPO			
	17.	01/03/2002	WO 02/00938	WIPO			
	18.	04/11/2002	WO 02/29117	WIPO			
	19.	09/19/2002	WO 02/072772	WIPO			
	20.	12/27/2002	WO 02/103013	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

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Initials	No.	
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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	08/22/2002	2002/0115088	Kurn			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	2.	06/20/2002	WO 02/48402	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	04/14/2003	2003/0073081	Mukai et al.			
	2.	04/04/1995	5,403,711	Walder et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

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